

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 October 2003 (30.10.2003)

PCT

(10) International Publication Number
WO 03/089602 A2

(51) International Patent Classification⁷: **C12N**
(21) International Application Number: PCT/US03/12028
(22) International Filing Date: 18 April 2003 (18.04.2003)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/374,416 19 April 2002 (19.04.2002) US
(71) Applicant (for all designated States except US): **YALE UNIVERSITY** [US/US]; Two Whitney Avenue, New Haven, CT 06511 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and
(75) Inventor/Applicant (for US only): **MEDZHITOV, Ruslan, M.** [UZ/US]; 2 Indian Woods Road, Branford, CT 06405 (US).

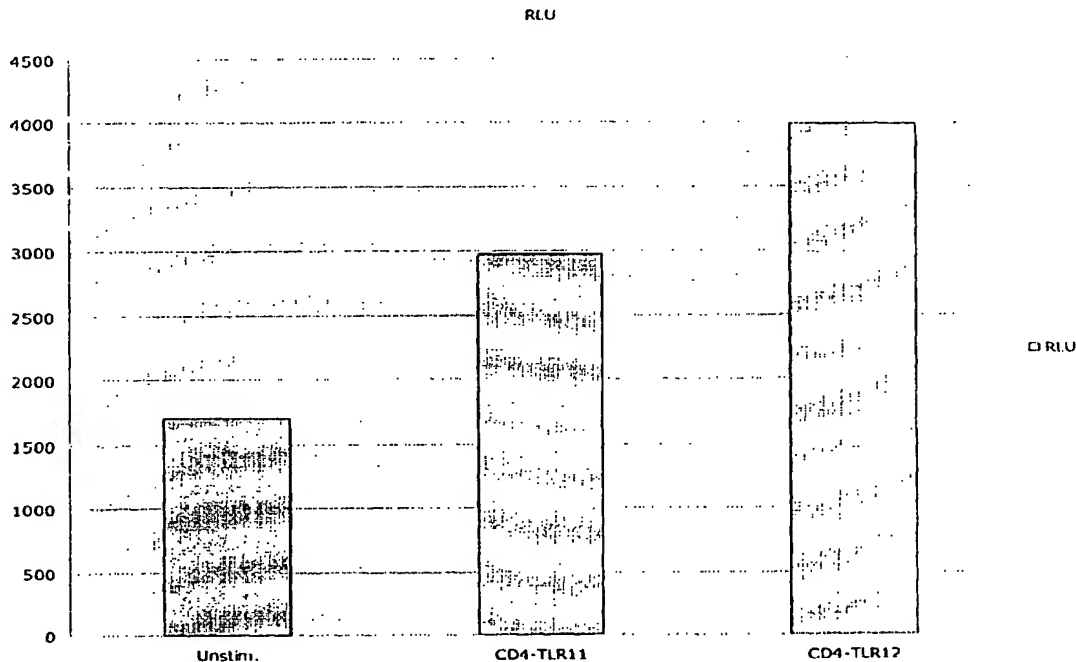
Published:

— without international search report and to be republished upon receipt of that report

(74) Agents: **GRANAHAN, Patricia et al.**; Ropes & Gray, One International Place, Boston, MA 02110-2624 (US).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **TOLL-LIKE RECEPTOR 11**



(57) Abstract: The invention describes isolated Toll-like receptor 11 ("TLR11") and Tolllike receptor 12 ("TLR12") polypeptides as well as isolated variants and fragments thereof and the isolated nucleic acids encoding them. The invention also describes vectors and host cells containing nucleic acid encoding a TLR11 or a TLR12 polypeptide and methods for producing a TLR11 or a TLR12 polypeptide. Also described are methods for screening for compounds which modulate TLR11 or TLR12 activity.

WO 03/089602 A2